



## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/724,964B

DATE: 04/02/2002

TIME: 08:39:03

Input Set : A:\CIBT-P01-080 Sequence Listing.txt

Output Set: N:\CRF3\04022002\I724964B.raw

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3 <110> APPLICANT: Crompton, T.
5 <120> TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR REGULATING LYMPHOCYTE ACTIVITY
7 <130> FILE REFERENCE: CIBT-P01-080
9 <140> CURRENT APPLICATION NUMBER: 09/724,964B
10 <141> CURRENT FILING DATE: 2000-11-28
12 <150> PRIOR APPLICATION NUMBER: 60/168,112
13 <151> PRIOR FILING DATE: 1999-11-30
15 <160> NUMBER OF SEQ ID NOS: 28
17 <170> SOFTWARE: PatentIn Ver. 2.1
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 1277
21 <212> TYPE: DNA
22 <213> ORGANISM: Gallus gallus
24 <400> SEQUENCE: 1
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26 gtctcctctg ggctgacttg tggaccaggc aggggcattg gaaaaaggag gcaccccaaa 120
27 aagctgaccc cgtagccta taagcagttt attcccaatg tggcagagaa gaccctaggg 180
28 gccagtggaa gatatgaagg gaagatcaca agaaactccg agagatttaa agaactaacc 240
29 ccaaattaca accctgacat tatttttaag gatgaagaga acacgggagc tgacagactg 300
30 atgactcagc gctgcaagga caagctgaat gccctggcga tctcgggtgat gaaccagtgg 360
31 cccgggggtga agctgcgggt gaccgagggc tgggacgagg atggccatca ctccgaggaa 420
32 tcgctgcaact acgaggggtcg cgccgtggac atcaccacgt cggatcggga ccgcagcaag 480
33 tacggaatgc tggcccgccct cgccgtcgag gccggcttcg actgggtcta ctacgagtcc 540
34 aaggcgacaca tccactgctc cgtaaaagca gaaaactcag tggcagcgaa atcaggaggc 600
35 tgcttccctg gctcagccac agtgacactg gagcatggag gcaccaagct ggtgaaggac 660
36 ctgagccctg gggaccgcgt gctggctgct gacgcggacg gccggtgct ctacagtga 720
37 ttccctacct tcctcgaccg gatggacagc tcccgaagc tcttctacgt catcgagacg 780
38 cggcagcccc gggcccggt gctactgacg gcggccacc tgctctttgt ggccccccag 840
39 cacaaccagt cggaggccac aggggtccacc agtggccagg cgctcttcgc cagcaacgtg 900
40 aagcctggcc aacgtgtcta tgtgctgggc gagggcgggc agcagctgct gccggcgtct 960
41 gtccacagcg tctcattgcy ggaggaggcg tccggagcct acgcccact caccgcccag 1020
42 ggcaccatcc tcatcaaccg ggtgttgccc tcctgctacg ccgtcatcga ggagcacagt 1080
43 tgggcccatt gggccttcgc accattccgc ttggctcagg ggctgctggc cgccctctgc 1140
44 ccagatgggg ccatccctac tgcgcacc accaccactg gcattccatt gtactcacgg 1200
45 ctccctctacc gcacggcag ctgggtgctg gatggtgacg cgctgcatcc gctgggcatg 1260
46 gtggcaccgg ccagctg 1277
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50 <211> LENGTH: 1190
51 <212> TYPE: DNA
52 <213> ORGANISM: Mus musculus
54 <400> SEQUENCE: 2
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56 cagagctgcy ggcggggcgg aggaccggtt ggccggcggc gttatgtgcy caagcaactt 120

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57 gtgcctctgc tatacaagca gtttgtgccc agtatgcccg agcggaccct gggcgcgagt 180
58 gggccagcgg aggggagggg aacaaggggg tcggagcgct tccgggacct cgtacccaac 240
59 tacaaccccc acataatctt caaggatgag gagaacagcg gcgcagaccg cctgatgaca 300
60 gagcgttgca aagagcgggt gaacgctcta gccatcgcgg tgatgaacat gtggcccgga 360
61 gtacgcctac gtgtgactga aggctgggac gaggacggcc accacgcaca ggattcactc 420
62 cactacgaag gccgtgcctt ggacatcacc acgtctgacc gtgaccgtaa taagtatggt 480
63 ttgttgggcg gcctagctgt ggaagccgga ttcgactggg tctactacga gtcccgaac 540
64 cacatccacg tatcgggtcaa agctgataac tcaactggcg tccgagccgg aggctgcttt 600
65 ccgggaaatg ccacggtgcg cttgcccggc ggcgaacgga aggggctgag ggaactacat 660
66 cgtggtgact gggtagctgg cgctgatgca gcgggcccag tggtagccac gccagtgtctg 720
67 ctcttcctgg accgggatct gcagcgcgcg gcctcgttcg tggctgtgga gaccgagcgg 780
68 cctccgcgca aactgttgct cacaccctgg catctggtgt tcgctgctcg cgggccagcg 840
69 cctgctccag gtgactttgc accggtgttc gcgcgcgct tacgtgctgg cgactcggtg 900
70 ctggctcccc gcggggaagc gctccagccg gcgcgcgtag cccgcgtggc gcgcgaggaa 960
71 gccgtggggc tgttcgcacc gctcaactgc cacgggacgc tgcgtgtaaa cgacgtcctc 1020
72 gcctcctgct acgcggttct agagagtcac cagtgggccc accgcgcctt cgcccctttg 1080
73 cggctgctgc acgcgctcgg ggctctgctc cctgggggtg cagtccagcc gactggcatg 1140
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77 &lt;210&gt; SEQ ID NO: 3

78 &lt;211&gt; LENGTH: 1281

79 &lt;212&gt; TYPE: DNA

80 &lt;213&gt; ORGANISM: Mus musculus

82 &lt;400&gt; SEQUENCE: 3

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83 atgtctcccg cctggctccg gcccgcactg cggttctgtc tgttcctgct gctgctgctt 60
84 ctggtgccgg cggcgcgggg ctgcgggccc ggccgggtgg tgggcagccg ccggaggccg 120
85 cctcgcaagc tcgtgcctct tgccataaag cagttcagcc ccaacgtgcc ggagaagacc 180
86 ctgggcgcca gcgggcgcta cgaaggcaag atcgcgcgca gctctgagcg cttcaaagag 240
87 ctacccccca actacaatcc cgacatcate ttcaaggacg aggagaacac gggtagccgac 300
88 cgcctcatga cccagcgtcg caaggaccgt ctgaactcac tggccatctc tgtcatgaac 360
89 cagtggcctg gtgtgaaact gcgggtgacc gaaggccggg atgaagatgg ccatcactca 420
90 gaggagtctt tacactatga gggcgcgcg gtggatatca ccacctcaga ccgtgaccga 480
91 aataagtatg gactgctggc gcgcttagca gtggaggccg gcttcgactg ggtgtattac 540
92 gagtccaagg cccacgtgca ttgctctgtc aagtctgagc attcggccgc tgccaagaca 600
93 ggtggctgct ttctgcccgg agcccagggt cgcttagaga acggggagcg tgtggccctg 660
94 tcagctgtaa agccaggaga ccgggtgctg gccatggggg aggatgggac cccacacctc 720
95 agtgatgtgc ttattttcct ggaccgcgag ccaaaccggc tgagagcttt ccaggtcac 780
96 gagactcagg atcctccgcg tcggctggcg ctacgcctg cccacctgct cttcattgct 840
97 gacaatcata cagaaccagc agcccacttc cgggcccacat ttgccagcca tgtgcaacca 900
98 ggccaatatg tgcgtgtatc aggggtacca ggccctcagc ctgctcgggt ggcagctgtc 960
99 tccacccacg tggcccttgg gtccatgct cctctcaaaa ggcattgggac acttgtggtg 1020
100 gaggatgtgg tggcctcctg ctttgcagct gtggctgacc accatctggc tcagttggcc 1080
101 ttctggcccc tgcgactgtt tcccagtttg gcatggggca gctggacccc aagtgagggt 1140
102 gttcactcct accctcagat gctctaccgc ctggggcgct tcttgctaga agagagcacc 1200
103 ttccatccac tgggcatgtc tggggcagga agctgaaggg actctaacca ctgcccctct 1260
104 ggaactgctg tgcgtggatc c
1281

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107 &lt;210&gt; SEQ ID NO: 4

108 &lt;211&gt; LENGTH: 1313

109 &lt;212&gt; TYPE: DNA

110 &lt;213&gt; ORGANISM: Mus musculus

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112 &lt;400&gt; SEQUENCE: 4

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115 accccttttag cctacaagca gtttattccc aacgtagccg agaagaccct agggggccagc 180
116 ggcagatatg aagggaagat cacaagaaac tccgaacgat ttaaggaact ccccccaat 240
117 tacaaccccg acatcatatt taaggatgag gaaaacacgg gagcagaccg gctgatgact 300
118 cagaggtgca aagacaagtt aaatgccttg gccatctctg tgatgaacca gtggcctgga 360
119 gtgaggctgc gaggtagcga gggctgggat gaggacggcc atcattcaga ggagtctcta 420
120 cactatgagg gtcgagcagt ggacatcacc acgtccgacc gggaccgcag caagtacggc 480
121 atgctggctc gcctggctgt ggaagcaggt ttcgactggg tctactatga atccaaagct 540
122 cacatccact gttctgtgaa agcagagaac tccgtggcgg ccaaatccgg cggctgtttc 600
123 cggggatccg ccaccgtgca cctggagcag ggccggcacc agctggtgaa ggacttacgt 660
124 cccggagacc gcgtgctggc ggctgacgac cagggccggc tgctgtacag cgacttcctc 720
125 accttcctgg accgcgacga aggcgccaag aaggctcttct acgtgatcga gacgctggag 780
126 ccgcgcgagc gcctgctgct caccgcgcgc cactgctctt tcgtggcgcc gcacaacgac 840
127 tcggggccca cgcgggggcc aagcgcgctc tttgccagcc gcgtgcgccc cgggcagcgc 900
128 gtgtacgtgg tggctgaacg cggcggggac cgcggctgc tcgccgcgc ggtgcacagc 960
129 gtgacgctgc gagaggagga ggcgggcgcg tacgcgcgc tcacggcgca cggcaccatt 1020
130 ctcatcaacc ggggtgctgc ctgctgctac gctgtcatcg aggagcacag ctgggcacac 1080
131 cgggccttcg cgcctttccg cctggcgcac gcgctgctgg ccgcgctggc acccgccgc 1140
132 cgggacggcg ggggcggggg cagcatccct gcagcgcaat ctgcaacgga agcgaggggc 1200
133 gcggagccga ctgcgggcat ccactggtac tcgcagctgc tctaccacat tggcacctgg 1260
134 ctgttggaac gcgagaccat gcaccccttg ggaatggcgg tcaagtccag ctg 1313

```

137 &lt;210&gt; SEQ ID NO: 5

138 &lt;211&gt; LENGTH: 1256

139 &lt;212&gt; TYPE: DNA

140 &lt;213&gt; ORGANISM: Brachydanio rerio

142 &lt;400&gt; SEQUENCE: 5

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143 atgcggcttt tgacgagagt gctgctggtg tctcttctca ctctgtcctt ggtgggtgtcc 60
144 ggactggcct gcggtcctgg cagaggctac ggcagaagaa gacatccgaa gaagctgaca 120
145 cctctcgctt acaagcagtt catacctaata gtcgcggaga agaccttagg ggccagcggc 180
146 agatacgagg gcaagataac gcgcaattcg gagagattta aagaacttac tccaaattac 240
147 aatcccagaca ttatcttttaa ggatgaggag aacacgggag cggacaggct catgacacag 300
148 agatgcaaag acaagctgaa ctgctggtgg atctctgtta tgaaccactg gccaggggtt 360
149 aagctgcgtg tgacagaggg ctgggatgag gacggtcacc attttgaaga atcactccac 420
150 tacgagggaa gagctgttga tattaccacc tctgaccgag acaagagcaa atacgggaca 480
151 ctgtctcgcc tagctgtgga ggcgtggatt gactgggtct attacgagtc caaagcccac 540
152 attcattgct ctgtcaaagc agaaaattcg gttgctgcga aatctggggg ctgtttccca 600
153 ggttcggctc tggctcgtc ccaggacgga ggacagaagg ccgtgaagga cctgaacccc 660
154 ggagacaagg tgctggcgcc agacagcgcg ggaaacctgg tggtcagcga cttcatcatg 720
155 ttcacagacc gagactccac gacgcgacgt gtgttttacg tcatagaaac gcaagaaccc 780
156 gttgaaaaga tcacctcac cgcgctcac ctctttttg tcctcgaca ctcaacggaa 840
157 gatctccaca ccatgaccgc cgcgtatgcc agcagtgtca gagccggaca aaaggtgatg 900
158 gttgttgatg atagcggtea gcttaaattc gtcactgtgc agcggtatata cagggaggag 960
159 cagcggggct cgttcgcacc agtgactgca catgggacca ttgtggtcga cagaatactg 1020
160 gcgtcctgtt acgcgtaaat agaggaccag gggcttgccg atttggcctt cgcgcccgc 1080
161 aggtcttatt attacgtgtc atcattcctg tccccaaaa ctccagcagt cgggtccaatg 1140
162 cgactttaca acaggagggg gtccactggt actccaggt cctgtcatca aatgggaacg 1200
163 tggcttttgg acagcaacat gcttcactct ttggggatgt cagtaaaactc aagctg 1256

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Input Set : A:\CIBT-P01-080 Sequence Listing.txt

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166 <210> SEQ ID NO: 6
167 <211> LENGTH: 1425
168 <212> TYPE: DNA
169 <213> ORGANISM: Homo sapiens
171 <220> FEATURE:
172 <221> NAME/KEY: modified_base
173 <222> LOCATION: (1387...1389)
174 <223> OTHER INFORMATION: n=a, c, g, or t
176 <400> SEQUENCE: 6
177 atgctgctgc tggcgagatg tctgctgcta gtccctcgtct cctcgctgct ggtatgctcg 60
178 ggactggcgt gcggaccggg caggggggttc gggaagagga ggcaccccaa aaagctgacc 120
179 ccttttagcct acaagcagtt tatccccaat gtggccgaga agaccctagg cgccagcgga 180
180 aggtatgaag ggaagatctc cagaaactcc gagcgattta aggaactcac cccaattac 240
181 aaccccgaca tcatatttaa ggatgaagaa aacaccggag cggacaggct gatgactcag 300
182 aggtgtaagg acaagttgaa cgctttggcc atctcgggtga tgaaccagtg gccaggagtg 360
183 aaactgcggg tgaccgaggg ctgggacgaa gatggccacc actcagagga gtctctgcac 420
184 tacgagggcc gcgcagtgga catcaccacg tctgaccgcg accgcagcaa gtacggcatg 480
185 ctggcccgcg tggcgggtgga ggccggcttc gactgggtgt actacgagtc caaggcacat 540
186 atccactgct cggtgaaagc agagaactcg gtggcgggcca aatcgggagg ctgcttcccg 600
187 ggctcggcca cggtgcaact ggagcagggc ggacccaagc tggatgaagg cctgagcccc 660
188 ggggaccgcg tgctggcggc ggacgaccag ggccggctgc tctacagcga ctctctcact 720
189 ttcttgacc gcgacgacgg cgccaagaag gtcttctacg tgatcgagac gcgggagccg 780
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197 agcggcgggc gggaccgcgg gggcgggcgg ggacagtag ccctaaccgc tccaggtgct 1260
198 gccgacgctc cgggtgcggg ggccaccgcg ggcatccact ggtactcgca gctgctctac 1320
199 caaataggca cctggctcct ggacagcgag gccctgcacc cgtgggcat ggcggtcaag 1380
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204 <211> LENGTH: 1622
205 <212> TYPE: DNA
206 <213> ORGANISM: Homo sapiens
208 <400> SEQUENCE: 7
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210 cccggctccg gcccgaactg caattctgcc tggctctgtt gctgctgctg gtggtgcccg 120
211 cggcatgggg ctgcggggcc ggtcgggtgg tgggcagccg ccggcgaccg ccacgcaaac 180
212 tcgtgccgct cgcctacaag cagttcagcc ccaatgtgcc cgagaagacc ctgggcgcca 240
213 gcggacgcta tgaaggcaag atcgtctgca gctccgagcg cttcaaggag ctcaccccca 300
214 attacaatcc agacatcatc ttcaaggacg aggagaacac aggcgcccgc cgcctcatga 360
215 ccagcgctg caaggaccgc ctgaactcgc tggctatctc ggtgatgaac cagtggcccg 420
216 gtgtgaagct gcgggtgacc gagggctggg acgaggacgg ccaccactca gaggagtccc 480
217 tgcatatga gggccgcgcg gtggacatca ccacatcaga ccgcgaccgc aataagtatg 540
218 gactgctggc gcgcttggca gtggaggccg gctttgactg ggtgtattac gagtcaaagg 600
219 cccacgtgca ttgctccgct aagtcgcgac actcggccgc agccaagacg ggcggctgct 660

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220 tccctgccgg agcccaggta cgcctggaga gtggggcgcg tgtggccttg tcagccgtga 720
221 ggccgggaga ccgtgtgctg gccatggggg aggatgggag cccacacctc agcgatgtgc 780
222 tcattttcct ggaccgagag cccacaggc tgagagcctt ccaggtcato gagactcagg 840
223 accccccaag ccgcctggca ctacacccg ctacacctgt ctttacggct gacaatcaca 900
224 cggagccggc agcccgcttc cgggccacat ttgccagcca cgtgcagcct ggccagtacg 960
225 tgctggtggc tggggtgcca ggctgcagc ctgcccgcgt ggcagctgtc tctacacacg 1020
226 tggccctcgg ggctacgcc ccgtcacaa agcatgggac actggtggtg gaggatgtgg 1080
227 tggcatcctg cttcgcgcc gtggtgacc accacctggc tcagttggcc ttctggcccc 1140
228 tgagactctt tcacagcttg gcatggggca gctggacccc gggggagggt gtgcattggt 1200
229 accccagct gctctaccgc ctggggcgct tctgtctaga agagggcagc ttccaccac 1260
230 tgggcatgtc cggggcaggg agctgaaagg actccaccgc tgcctcctg gaactgctgt 1320
231 actgggtcca gaagcctctc agccaggagg gagctggccc tgggaaggac ctgagctggg 1380
232 ggacactggc tcctgccatc tcctctgcca tgaagataca ccattgagac ttgactgggc 1440
233 aacaccagcg tccccacccc gcgtcggtgt gtagtcatag agctgcaagc tgagctggcg 1500
234 aggggatggt tgttgacccc tctctcctag agaccttgag gctggcacgg cgactcccaa 1560
235 ctcagcctgc tctcactacg agttttcata ctctgcctcc cccattggga gggccattc 1620
236 cc 1622

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239 &lt;210&gt; SEQ ID NO: 8

240 &lt;211&gt; LENGTH: 1191

241 &lt;212&gt; TYPE: DNA

242 &lt;213&gt; ORGANISM: Homo sapiens

244 &lt;400&gt; SEQUENCE: 8

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245 atggtctctc tgaccaatct actgcccttg tgtgtcttgg cacttctggc gctgccagcc 60
246 cagagctgcg ggccggggcg ggggcccgtt ggccggcgcc gctatgcgcg caagcagctc 120
247 gtgccgctac totacaagca atttgtgccc ggcgtgccag agcggaccct gggcgccagt 180
248 gggccagcgg aggggagggt ggcaaggggc tccgagcgct tccgggacct cgtgcccac 240
249 tacaaccccg acatcatctt caaggatgag gagaacagtg gagccgaccg cctgatgacc 300
250 gagcgttgca aggagagggt gaacgctttg gccattgccg tgatgaacat gtggcccggg 360
251 gtgcgcctac gagtgactga gggctgggac gaggacggcc accacgctca ggattcactc 420
252 cactacgaag gccgtgcttt ggacatcact acgtctgacc gcgaccgcaa caagtatggg 480
253 ttgttgggcg gcctcgagcgt ggaagccggc ttcgactggg tctactacga gtcccgaac 540
254 cactgccacg tgcgtgctca agctgataac tcaactggcg tccggggcgg cggtgcttt 600
255 ccgggaaatg caactgtgcg cctgtggagc ggcgagcgga aagggtgcg ggaactgcac 660
256 cgcggagact gggttttggc ggccgatgcg tcaggccggg tgggtgccac gccggtgctg 720
257 ctcttccttg accgggactt gcagcgccgg gcttcatttg tggctgtgga gaccgagtgg 780
258 cctccacgca aactgttgct cagccctggt cactggtgtg ttgcgcctcg agggccggcg 840
259 cccgcgccag gcgactttgc accggtgttc gcgcgcggc tacgcgctgg ggactcgggtg 900
260 ctggcgcccg gcgggggatgc gcttcggcca gcgcgcgtgg cccgtgtggc gcgggaggaa 960
261 gccgtgggcg tgttcgcgcc gctcaccgcg caccggacgc tgctggtgaa cgatgtcctg 1020
262 gcctcttgct acgcggttct ggagagtcac cagtgggcgc accgcgcttt tgcccccttg 1080
263 agactgctgc acgcgctagg ggcgctgctc cccgcggggg ccgtccagcc gactggcatg 1140
264 cattggtact ctgcgctcct ctaccgctta gcggaggagc tactgggctg a 1191

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267 &lt;210&gt; SEQ ID NO: 9

268 &lt;211&gt; LENGTH: 1251

269 &lt;212&gt; TYPE: DNA

270 &lt;213&gt; ORGANISM: Brachydanio rerio

272 &lt;400&gt; SEQUENCE: 9

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273 atggacgtaa ggctgcattc gaagcaattt gctttactgt gttttatcag cttgcttctg 60
274 acgccttgtg gattagcctg tggctcctgg agaggttatg gaaaacgaag acacccaaag 120

```

Use of n and / or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to ensure a corresponding explanation is present in the <220> to <223> fields of each sequence using n or Xaa.

## VERIFICATION SUMMARY

DATE: 04/02/2002

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TIME: 08:39:04

Input Set : A:\CIBT-P01-080 Sequence Listing.txt

Output Set: N:\CRF3\04022002\I724964B.raw

L:200 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:825 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15  
L:1458 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21  
L:1464 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21  
L:1473 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21  
L:1476 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21  
L:1482 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21  
L:1491 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21  
L:1494 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21  
L:1497 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21  
L:1737 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22  
L:1740 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22  
L:1743 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22  
L:1746 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22  
L:1749 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22  
L:1752 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22  
L:1755 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22  
L:1758 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22  
L:1761 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22  
L:1764 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22  
L:1767 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22